

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of existing Traffic Control Signals with street lighting and interconnect at the intersections of: US 40 / Hillcrest Drive, US 40 / Willowdale Road, US 40 / McCain Drive and US 40 / Grove Hill Road in Frederick County. US 40 is assumed to run an east-west direction.

II. INTERSECTION OPERATION

The phasing operation at each of the four intersections shall not be changed. The existing full-actuated eight-phase controller and NEMA cabinet shall be utilized at each of the four locations.

US 40 / Hillcrest Drive

- The existing pedestrian signals across the east leg of US 40 shall be replaced with countdown pedestrian signal heads.

US 40 / Willowdale Road

- The existing pedestrian signals across the west leg of US 40 shall be replaced with countdown pedestrian signal heads.

US 40 / McCain Drive

- The existing pedestrian signals across the west leg of US 40 shall be replaced with countdown pedestrian signal heads.

US 40 / Grove Hill Road

- The existing pedestrian signals across the west leg of US 40 shall be replaced with countdown pedestrian signal heads.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
6004	4" concrete sidewalk.	25 S.F.
8001	Furnish and install concrete for signal foundation.	2 C.Y.
8013	Furnish and install breakaway pedestal pole (10').	1 EA
8014	Remove and dispose of existing material and equipment per assignment.	1 EA
8022	Furnish and install No. 6 AWG stranded bare copper ground wire.	25 L.F.
8030	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trench.	30 L.F.
8045	Furnish and install electrical handhole.	1 EA
8069	Furnish and install ground rod 1/2" x 10'.	1 EA
8077	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	295 L.F.
8079	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	300 L.F.
8084	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS WEST PATRICK ST".)	3 EA
8128a	Furnish and install 16" LED countdown pedestrian signal head.	8 EA

The contact persons for District #7 are as follows:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: (310) 624-8141

Mr. Dave Coyne
Assistant District Engineer - Maintenance
Phone: (310) 624-8106

Ms Andrea Bend
District Engineer - Utility
Phone: (301) 624-8110

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7670

C. EQUIPMENT TO BE REMOVED

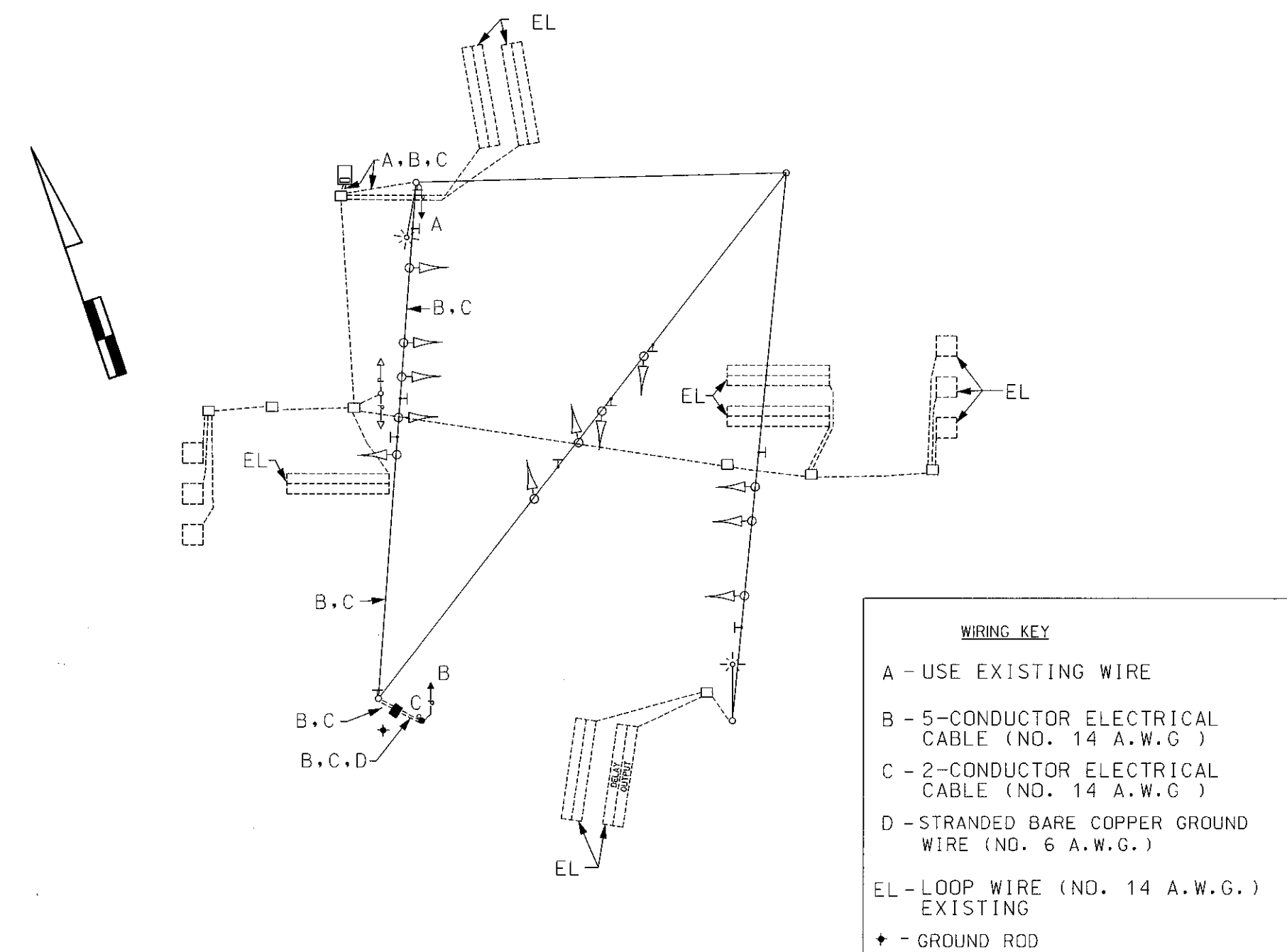
All removed signal materials are to become property of the Contractor.

PHASE CHART

THERE IS NO CHANGE TO ANY PHASE CHART

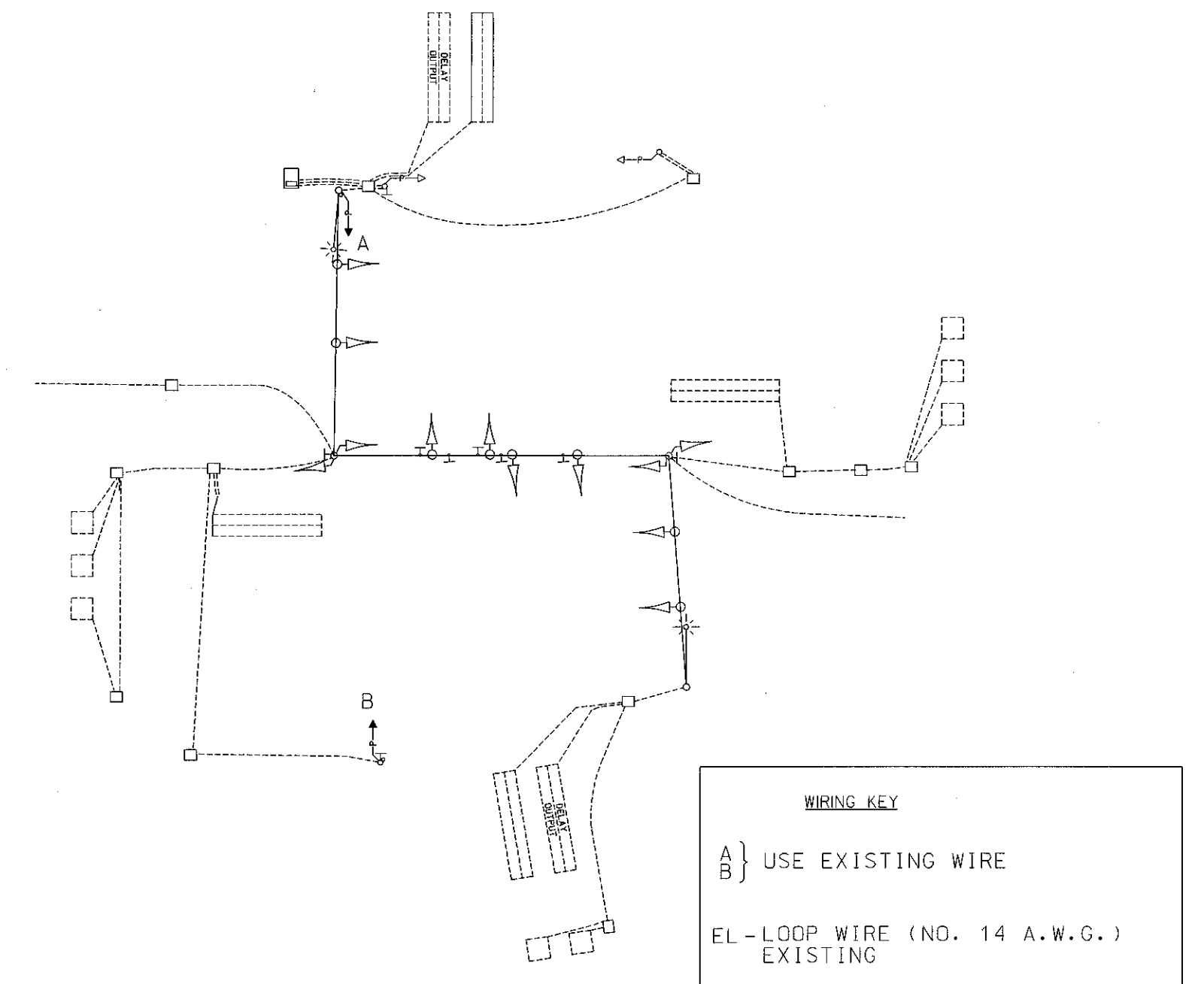
WIRING DIAGRAM

US 40 / McCain Drive



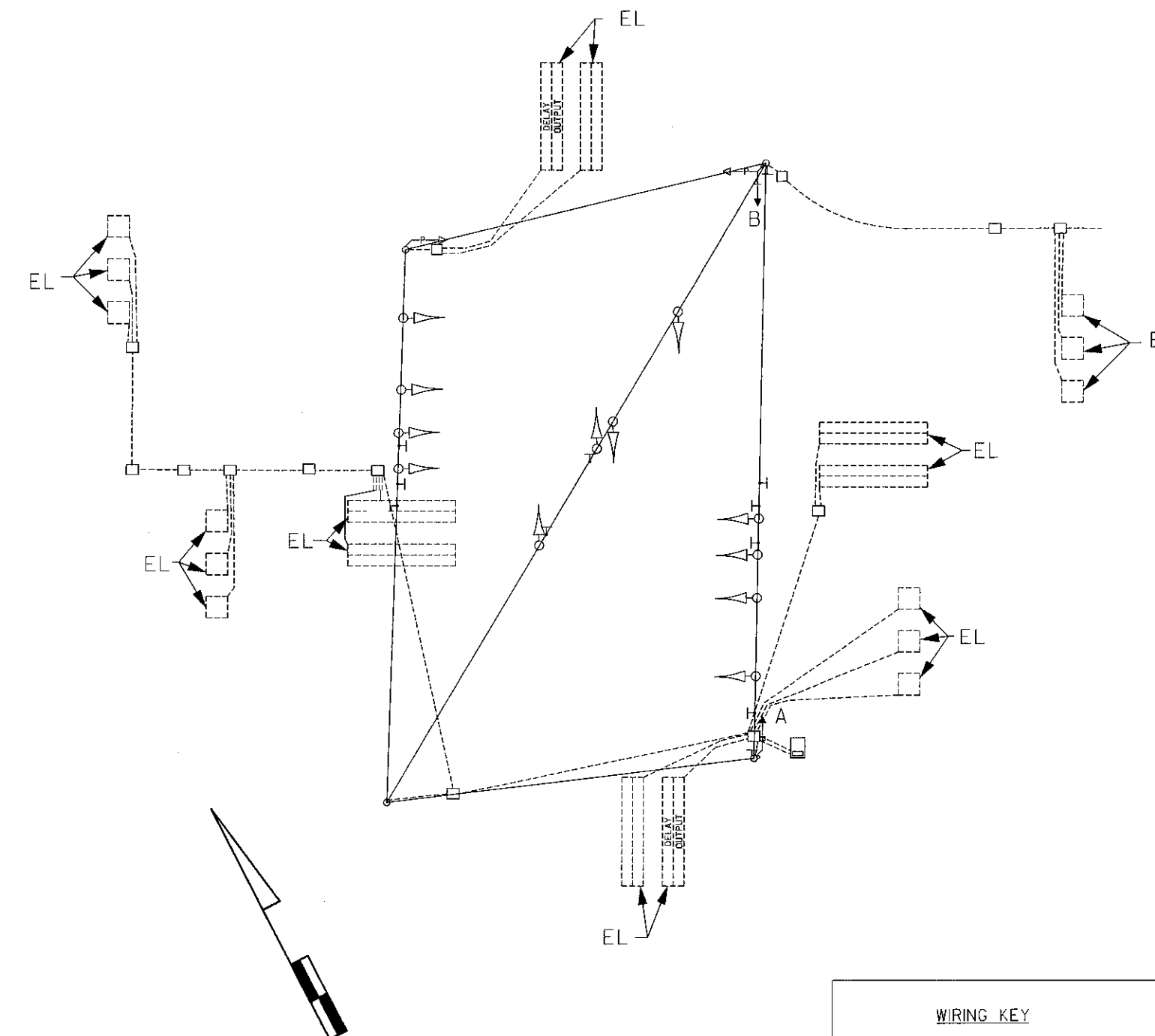
WIRING DIAGRAM

US 40 / GROVE HILL ROAD



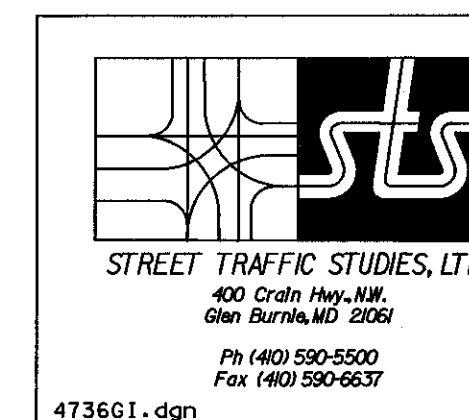
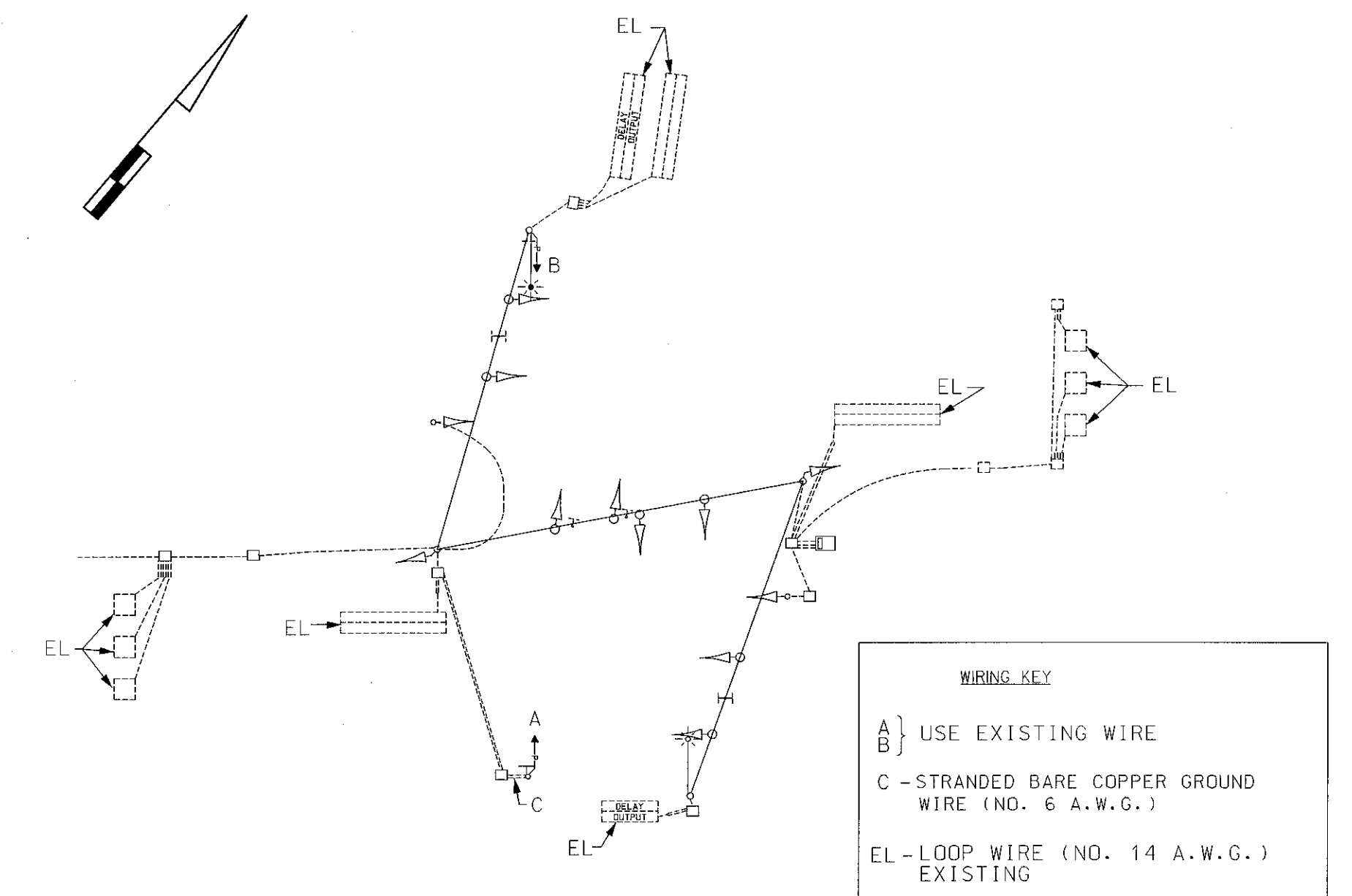
WIRING DIAGRAM

US 40 / HILLCREST DR



WIRING DIAGRAM

US 40 / WILLOWDALE RD



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

US 40 AND HILLCREST DRIVE, WILLOWDALE DRIVE,
McCain Drive, GROVE HILL ROAD

Drawn By: R.C.
Checked By: J.W.A.
Scale: NONE
Date: 11/12/04

F.A.P. NO.
S.H.A. NO.
COUNTY:
LOG MILE:

AT3585185
FREDERICK

TS NO.
TS-3937 G1
T.I.M.S. NO.

SHEET NO.
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